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is a divisional of Serial No. 08/162,081, filed February 7, 1994, now U.S. Patent No. 5,824,492, which is a national filing under 35 USC § 371 of PCT/GB93/21328.--

IN THE CLAIMS

Cancel claims 1-26 without prejudice, and add claims 27-36 which follow:

27. A method for determining expression of a gene which encodes a human polypeptide that has PI3 kinase activity and a molecular weight of about 110 kiladaltons as determined by SDS-PAGE, comprising contacting a sample with a nucleic acid molecule which hybridizes specifically to a transcript of said gene, and determining said hybridization as a determination of expression of said gene.
28. The method of claim 27, wherein said nucleic acid molecule is labelled with ³²P.
29. The method of claim 27, wherein said nucleic acid molecule is an antisense, RNA molecule.
30. The method of claim 27, wherein said nucleic acid molecule is a DNA molecule.
31. The method of claim 27, wherein said method comprises polymerase chain reaction.
32. The method of claim 27, wherein said nucleic acid molecule comprises a nucleotide sequence set forth in SEQ ID NO: 12, 14, 15, 16, 17, 18, 21, 22, 24, 25, 27 or 29.
33. The method of claim 31, comprising contacting said sample with a pair of oligonucleotide primers, said pair selected from the group consisting of (i) SEQ ID NOS: 12 and 14, (ii) SEQ ID NOS: 15 and 16, (iii) SEQ ID NOS: 17 and 18, (iv) SEQ ID NOS: 21 and 22, (v) SEQ ID NOS: 24 and 25, and (vi) SEQ ID NOS: 27 and 29.
34. The method of claim 27, wherein said sample is RNA isolated from a cell sample.